



# iMac Intel 27" EMC 2546 Hard Drive Replacement

Replace the hard drive in your Late 2012 27" iMac.

Written By: Andrew Optimus Goldberg



## INTRODUCTION

Replacing the hard drive requires separating the display and removing the left speaker.

**Before beginning any work on your iMac:** Unplug the computer and press and hold the power button for ten seconds to discharge the power supply's capacitors.

**Be very careful** not to touch the capacitor leads or any exposed solder joints on the back of the power supply.

[video: <https://www.youtube.com/watch?v=ZbnhuZoxkI8>]



### TOOLS:

- [iMac Opening Tool](#) (1)
- [Plastic Cards](#) (1)
- [Spudger](#) (1)
- [iMac Service Wedge](#) (1)
- [T9 Torx Screwdriver](#) (1)
- [T10 Torx Screwdriver](#) (1)



### PARTS:

- [OWC In-line Digital Thermal Sensor for 3rd party SATA HDD or SSD Upgrade for 27" iMacs 2012 and later models](#) (1)
- [iMac Intel 27" \(2012-2015\) Adhesive Strips](#) (1)

## Step 1 — Display




- Starting on the left of the display, near the power button, insert the iMac Opening Tool into the gap between the glass panel and the rear case.

 The hub on the iMac Opening Tool will keep you from pushing the wheel in too far. If using a different tool, insert no more than 3/8" into the display. You risk severing antenna cables and causing serious damage.

## Step 2



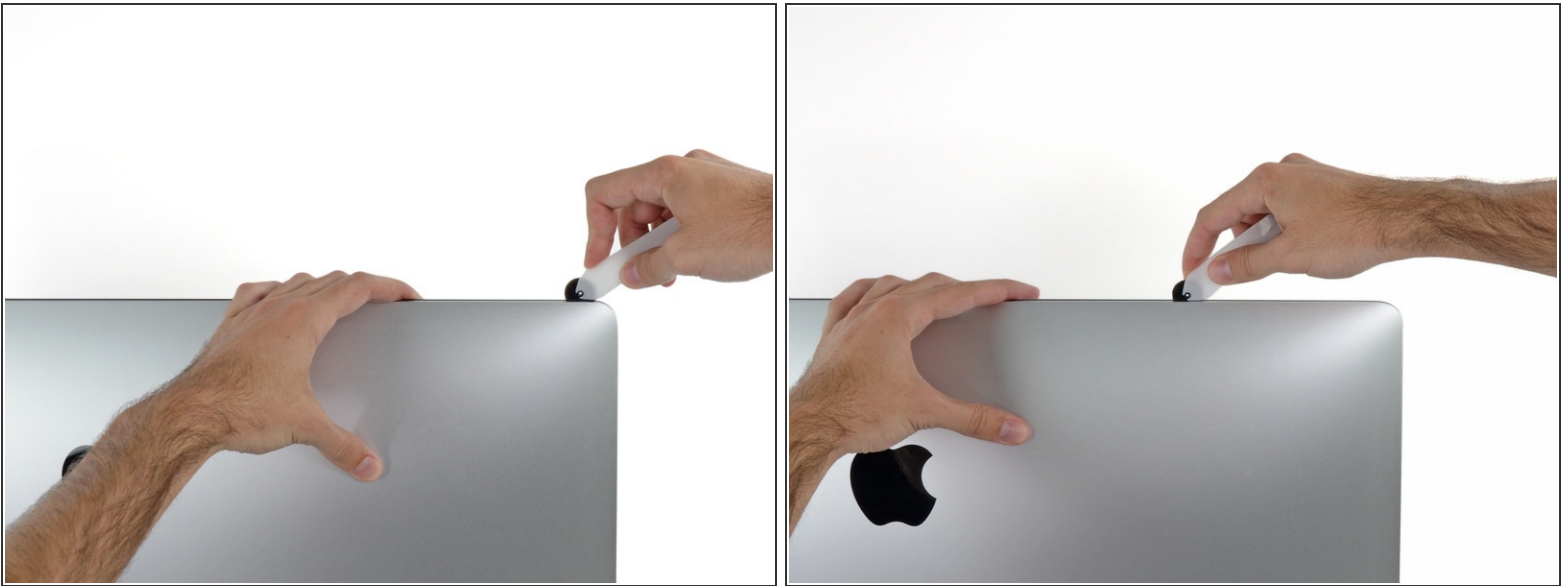
- Use the tool like a pizza cutter—roll it along through the gap, and it will cut the foam adhesive through the center.
-  Be sure to always push with the handle behind the cutting wheel. If you pull, the wheel might get pulled out of the handle.
- Run the tool up along the left side of the display.

### Step 3



- Continue wheeling the tool up around the top left corner.

### Step 4



- Cut the adhesive along the top left of the display.



## Step 5



- Continue along the top of the display.

**i** You may want to run the tool back and forth through what you've already cut a few times, to ensure you get as much of the adhesive separated as possible.

## Step 6



- Push the tool around the top right corner of the display.

## Step 7



- Wheel the tool down along the right side of the display.

## Step 8



- Finish pushing the opening tool to the bottom of the right side of the display.

**i** At this point, you'll want to run the tool back around the entire display, to ensure you cut as much adhesive as possible.

## Step 9



**i** While the opening tool did the lion's share of the work, the display will still be slightly adhered to the case. A plastic card will be necessary to free up the last of this adhesive.

- Set the iMac face-up on a table.
- Starting from the top right corner of the iMac, insert a plastic card between the display and frame.  
**⚠** Be careful not to insert it more than 3/8", or you may damage internal components.

## Step 10




- Gently twist the plastic card to open the space between the display and frame.
- Move slowly and be careful not to stress the display glass too much—you only need to make a gap of about 1/4".



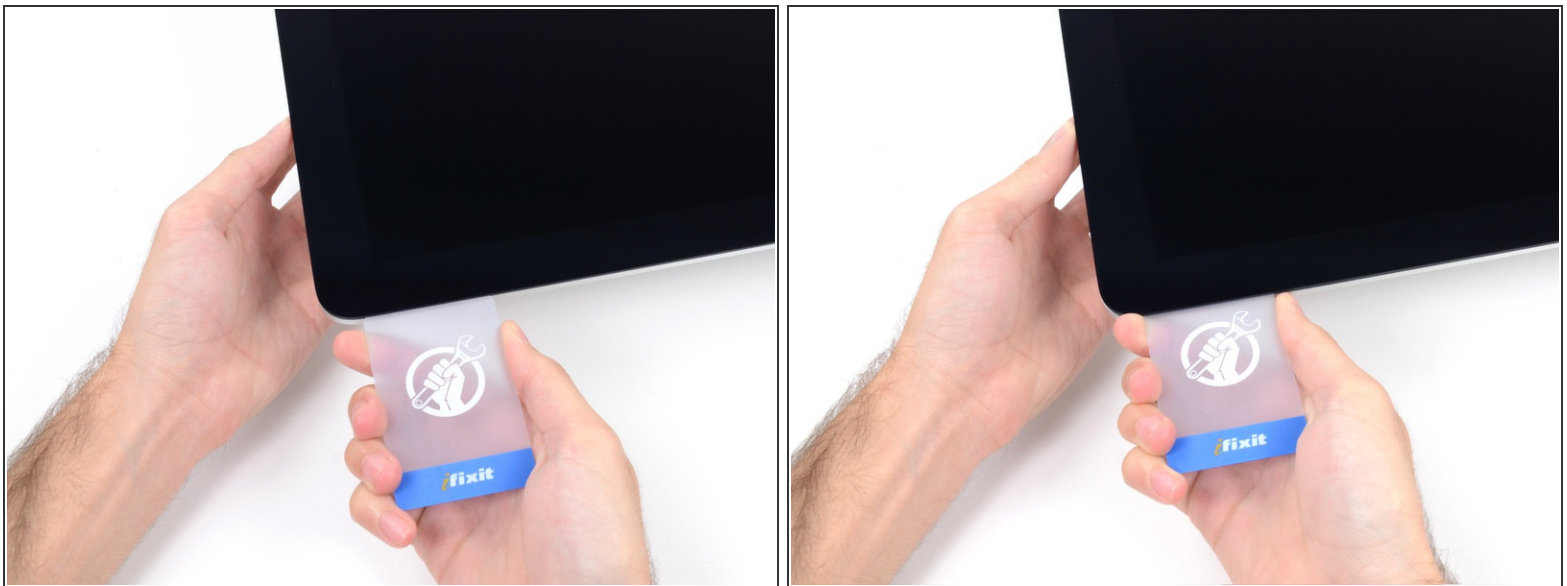
## Step 11



 Be sure to stop cutting before the iSight camera in this step, or you may damage it.

- Slide the card toward the center of the display, to cut any remaining adhesive.

## Step 12



- Put the card into the corner again and let it stay there to keep the adhesive from resettling.

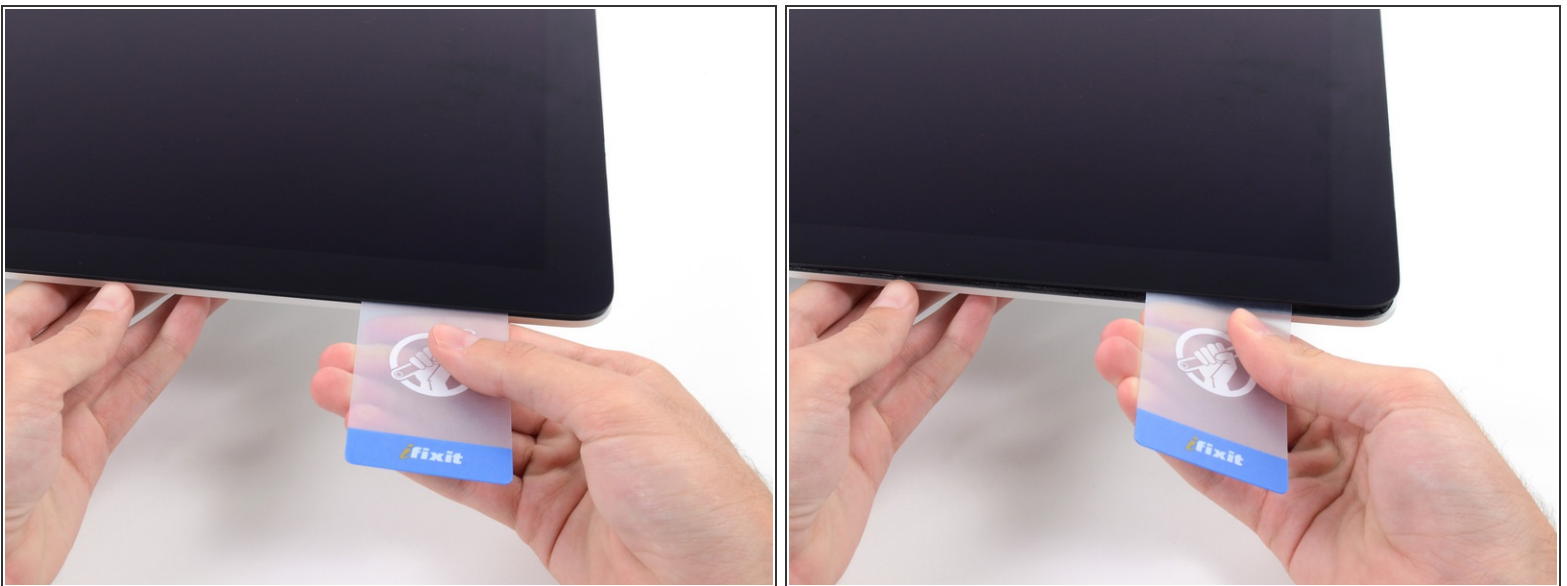


## Step 13




- Insert a second card into the gap between the display and frame in the top left corner.

## Step 14



- Gently twist the card, slightly increasing the space between the display and frame.

 As with the other side, move slowly to allow the adhesive to break, and be careful not to over-stress the display glass.

## Step 15



- Slide the plastic card toward the center, again stopping just before the iSight camera.


## Step 16



- Insert the card back into the top left corner.

## Step 17



 Only lift the display a few inches—it is still attached to the iMac by data and power cables.

- With the cards inserted as shown near the corners, gently twist the cards to increase the gap between display and case.
- If there are any sections that seem to stick and won't separate, stop twisting and use one of the cards to cut the adhesive in the problem area.
- Begin to lift the top of the display up from the frame.



## Step 18



- While holding the display up with one hand, use the other to unplug the display power cable.
- ⓘ Lift the display up enough to have easy access to the connections, but not so much that you stretch the cables and stress their connections (about 8").

## Step 19



- Flip up the metal retaining bracket on the display data cable.
  - Disconnect the display data cable.
- ⚠ This is a delicate connection that can easily be broken. Be sure to pull the display data cable connector straight out of its socket, toward the top of the iMac.

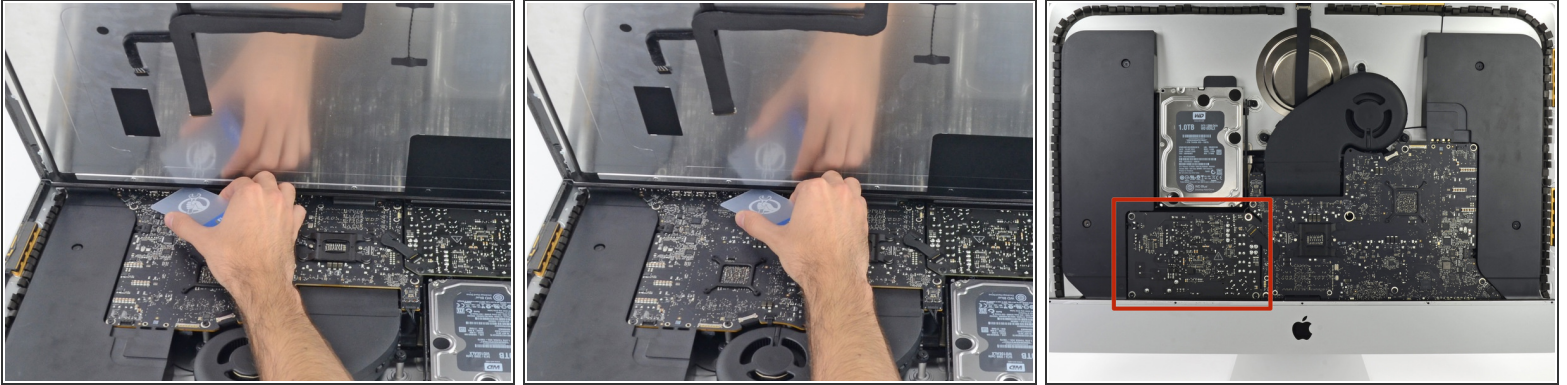


## Step 20



- Lift the display up to a near-vertical position.
- ⓘ At this point there is still a strip of adhesive along the bottom of the display, that will hold the display to the frame like a hinge. You can loosen this adhesive by working the display up and down a few times.
- There are two strips left and right along the bottom glue strip, where they reach the outer edges the last 20mm has no adhesive, effectively making right-angled lift-tabs, so you can remove these strips completely by carefully pulling them off from the outer ends rolling to the middle.

## Step 21



- If necessary, a plastic card can be used to cut any remaining sections of the bottom adhesive strip.

⚠ Be very careful not to touch the capacitor leads or any exposed solder joints on the back of the power supply (boxed in red).

## Step 22



⚠ Be very careful handling the display—it's big, heavy, and made of glass.

- Lift the display up from the frame and remove it from the iMac.
- It may be necessary to slowly lift from one side, to peel against the remaining adhesive.

## Step 23



- With the hinge free to move, the iMac will be unbalanced and hard to work on. Repairs can be completed with the iMac laying down, but are faster and easier with an [iMac service wedge](#).

## Step 24 — Left Speaker



- Remove two 10.0 mm T10 screws.



## Step 25



- Unplug the left speaker cable from its socket on the logic board. Be sure to pull straight up out of the socket.
- De-route the cable from the gap between the hard drive and logic board.
- ⓘ If the gap between the hard drive and logic board is too narrow for the speaker cable, disconnect it and leave the cable in place.

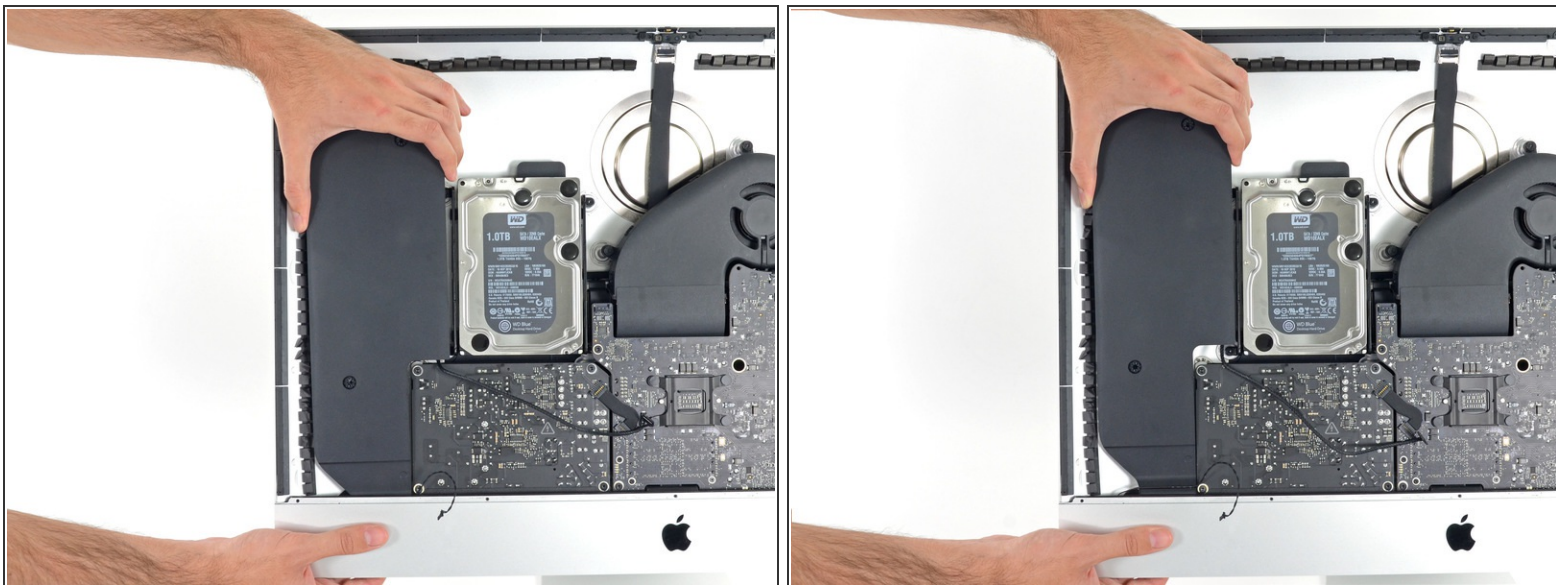
## Step 26



- ⚠ Be careful not to touch any solder joints on the back of the power supply. Capacitors may be charged enough to give you a dangerous shock.
- Use a spudger to disconnect the power button connector from its socket on the logic board.

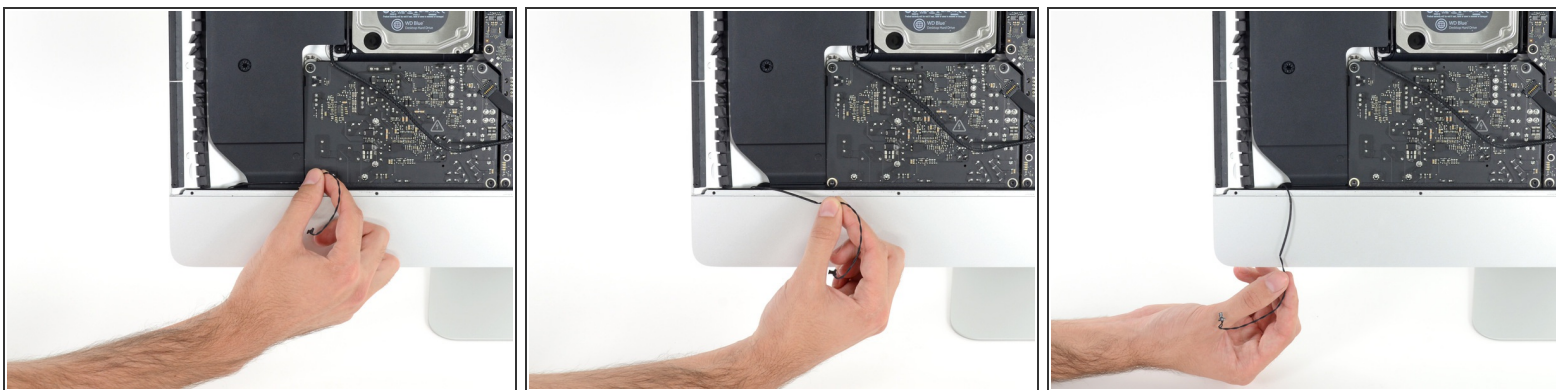


## Step 27



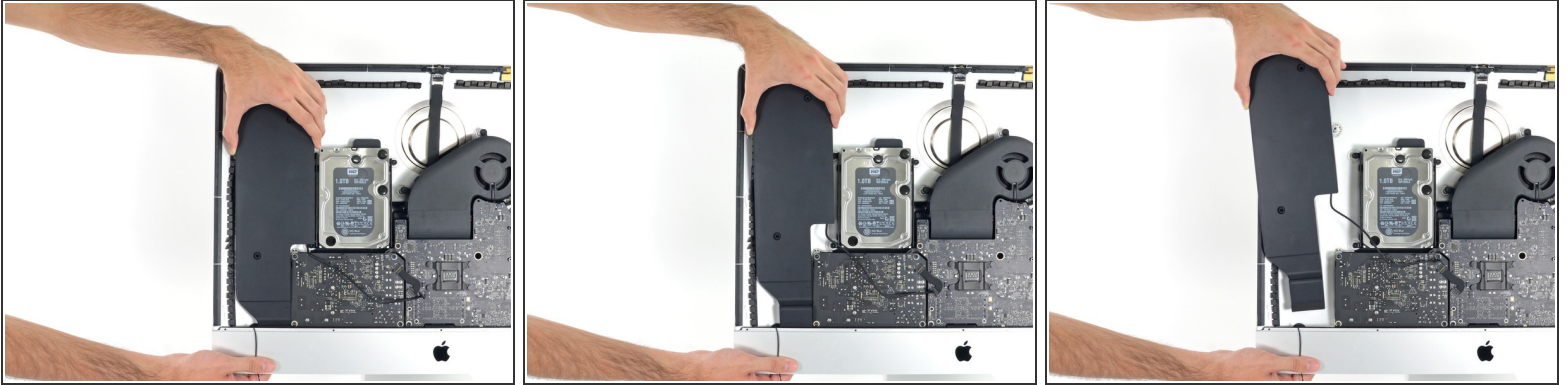
- Lift the left speaker straight up, until the power button cable is exposed (about 0.5").

## Step 28



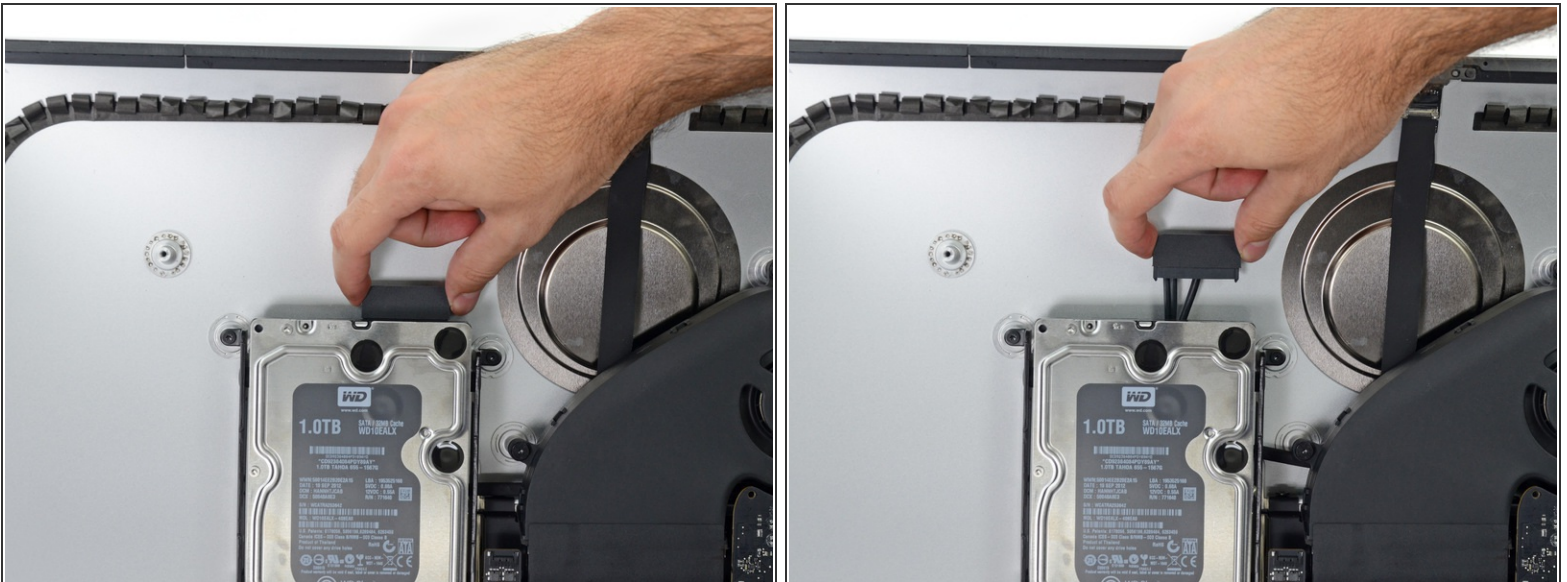
- Gently de-route the power button cable from its groove in the left speaker.

## Step 29



- Lift the left speaker straight up and remove it from the iMac.
- i** If the gap between the hard drive and logic board was too narrow to free the speaker cable earlier, gently pull it free as you remove the speaker.
- Push from the connector end as you pull from the speaker end to thread the cable under the hard drive's right bracket.

## Step 30 — Hard Drive



- Pull straight up on the SATA data/power cable to disconnect it from the drive.



## Step 31



- Remove two 7.3 mm T10 screws securing the left hard drive bracket to the rear case.

## Step 32



- Grab the hard drive and left hard drive bracket together.
- Tilt the left side up away from the rear case, and slide the assembly to the left.
- Remove the hard drive and left hard drive bracket from the iMac.

## Step 33



- Remove the left hard drive bracket.

## Step 34 — Hard Drive Replacement



- Remove the four 8.1 mm T9 screw posts from the hard drive, and transfer them to the replacement drive.

To reassemble your device, follow these instructions in reverse and use our [Adhesive Strips Guide](#) to reattach the display glass.



